INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/000492

A. CLASS Int.	SIFICATION OF SUBJECT MATTER C1 ⁷ E02D5/54		
According to	o International Patent Classification (IPC) or to both na	ational classification and IPC	
	S SEARCHED		
Minimum d	ocumentation searched (classification system followed C1 E02D5/54, E02D5/80	by classification symbols)	
Jitsı Kokai	tion searched other than minimum documentation to the Lyo Shinan Koho 1922–1996 i Jitsuyo Shinan Koho 1971–2004	Toroku Jitsuyo Shinan Koh Jitsuyo Shinan Toroku Koh	o 1994–2004 o 1996–2004
Electronic d	ata base consulted during the international search (name	ne of data base and, where practicable, sea	rch terms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
Y A	JP 11-323923 A (Tamohiro FUJ 26 November, 1999 (26.11.99), Full text; all drawings (Family: none)		1,2,4-10, 16,18,19 3,11-15,17
Y	JP 2001-193061 A (Sumitomo M Ltd. et al.), 17 July, 2001 (17.07.01), Par. Nos. [0020] to [0021]; I (Family: none)		1,2,4,6-9,16
Y	JP 2002-339357 A (Obayashi C 27 November, 2002 (27.11.02), Par. No. [0025]; Fig. 5 (Family: none)		. 5
× Furth	er documents are listed in the continuation of Box C.	See patent family annex.	
"A" docume conside "E" earlier date "L" docume cited to special docume means "P" docume than the	l categories of cited documents: ent defining the general state of the art which is not tred to be of particular relevance document but published on or after the international filing ent which may throw doubts on priority claim(s) or which is o establish the publication date of another citation or other reason (as specified) ent referring to an oral disclosure, use, exhibition or other ent published prior to the international filing date but later e priority date claimed actual completion of the international search (arch, 2004 (24.03.04)	"T" later document published after the interpriority date and not in conflict with the understand the principle or theory und document of particular relevance; the considered novel or cannot be considered to the document is taken alone document of particular relevance; the considered to involve an inventive step when the document of particular relevance; the considered to involve an inventive step combined with one or more other such combination being obvious to a persor document member of the same patent Date of mailing of the international sear 06 April, 2004 (06.	he application but cited to lerlying the invention claimed invention cannot be red to involve an inventive claimed invention cannot be pwhen the document is a documents, such a skilled in the art family
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
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ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 7-331653 A (Hidekazu TANAKA), 19 December, 1995 (19.12.95), Par. No. [0041]; Figs. 2 to 3 (Family: none)	10
Y	JP 59-096327 A (Kinsei Ko), 02 June, 1984 (02.06.84), Page 2, lower left column, line 8 to page 3, lower left column, line 2; Fig. 4 (Family: none)	18,19

Form PCT/ISA/210 (continuation of second sheet) (July 1998)